Q3:

a)

Variables: X00 X01 X02 X03 … X81 X82 … X88 where Xij means the square in i row and j column.

Domains: Xij є {0,1 … 8,9}

Constraints: Each number from 1 to 9 appears exactly once in each row and column on

the grid. Additionally, the grid is subdivided into 9 3x3 non-overlapping sub-grids, and

each number must appear exactly once in each sub-grid.